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**Gstrein**

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(54) **HINGE ASSEMBLY**

(56) **References Cited**

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U.S. PATENT DOCUMENTS  
4,850,080 A 7/1989 Röck et al.  
5,025,530 A \* 6/1991 Ferrari ..... E05D 7/125  
16/382

(Continued)

FOREIGN PATENT DOCUMENTS

AT 360856 B \* 2/1980  
AT 383 852 9/1987

(Continued)

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US 2022/0349229 A1 Nov. 3, 2022

OTHER PUBLICATIONS  
International Search Report issued Apr. 14, 2021 in International (PCT) Application No. PCT/AT2021/060014.

(Continued)

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(57) **ABSTRACT**

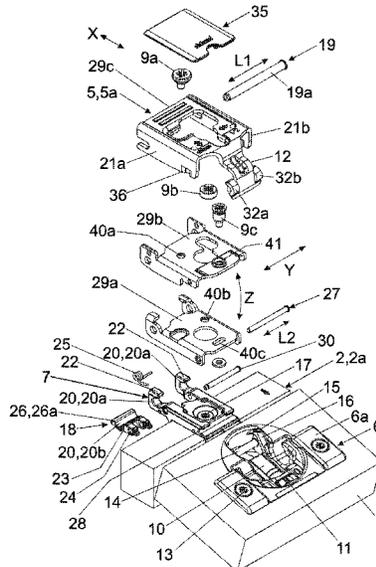
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A hinge assembly includes a mounting body to be fixed to a furniture carcass, a furniture hinge having two fitting portions connected to one another via at least one hinge axis, and a locking device for locking one of the fitting portions of the furniture hinge to the mounting body. The locking device includes at least one holding portion having an outer contour, and a locking contour corresponding thereto. The locking contour includes at least one stationary first member and at least one second member configured to be moved, preferably pivotally, relative to the first member. The at least one holding portion is received between the two members of the locking contour in a locked position.

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- (51) **Int. Cl.**  
*E05D 7/04* (2006.01) 7,213,300 B1 \* 5/2007 Domenig ..... E05D 7/04  
 16/236  
*E05D 7/12* (2006.01) 7,509,708 B1 \* 3/2009 Radke ..... E05D 7/081  
 16/245  
*E05D 5/06* (2006.01) 9,163,447 B1 \* 10/2015 Liang ..... E05F 5/006  
*E05F 3/20* (2006.01) 9,874,049 B1 \* 1/2018 McGregor ..... E05D 5/065  
 11,149,481 B2 10/2021 Tanriverdi  
 2004/0163213 A1 \* 8/2004 Isele ..... E05D 7/0407  
 16/245
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 2004/0216272 A1 11/2004 Booker et al.  
 2005/0172451 A1 8/2005 Kashiwaguma  
 2006/0137139 A1 \* 6/2006 Wu ..... E05D 7/0423  
 16/236
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See application file for complete search history.

(56) **References Cited**  
 U.S. PATENT DOCUMENTS

- 5,791,016 A \* 8/1998 Lenz ..... E05D 7/125  
 16/258  
 5,819,371 A \* 10/1998 Rock ..... E05D 7/123  
 16/382  
 6,148,479 A \* 11/2000 Lin ..... E05D 7/125  
 16/236  
 6,266,848 B1 \* 7/2001 Fraccaro ..... E05D 7/0407  
 16/241  
 6,675,440 B1 \* 1/2004 Lautenschlager ..... E05D 7/125  
 16/258  
 6,996,877 B2 2/2006 Booker et al.  
 7,178,199 B2 2/2007 Kashiwaguma

FOREIGN PATENT DOCUMENTS

- CN 205000799 U \* 1/2016  
 CN 105909098 A \* 8/2016  
 CN 107810304 3/2018  
 DE 85 30 987.7 4/1987  
 EP 0 982 455 3/2000  
 JP 62-107183 5/1987  
 JP 6-29414 8/1994  
 JP 4040355 11/2007  
 WO 2018/033221 2/2018  
 WO 2020/005174 1/2020

OTHER PUBLICATIONS

Search Report issued Jan. 14, 2021 in corresponding Chinese Patent Application No. 202180016224.X.

\* cited by examiner







Fig. 4a

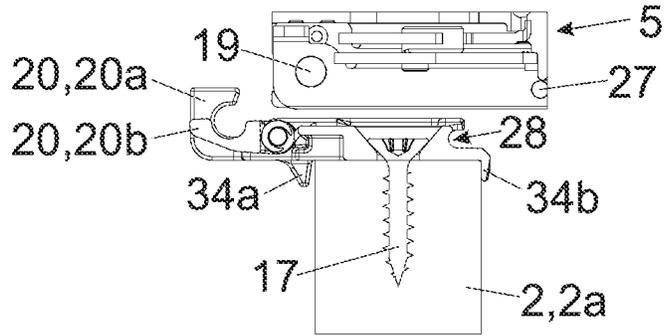


Fig. 4b

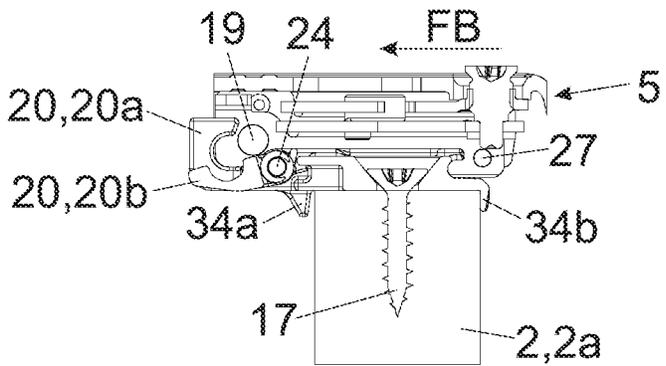


Fig. 4c

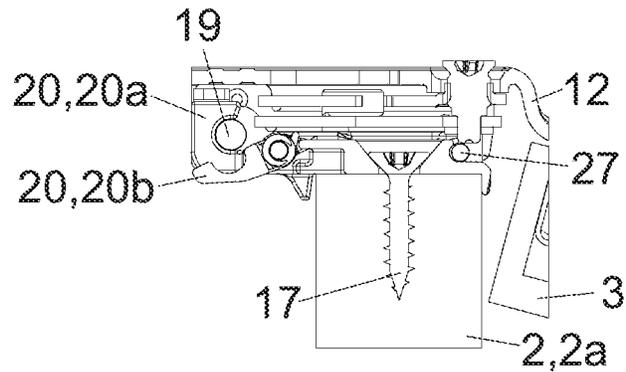


Fig. 4d

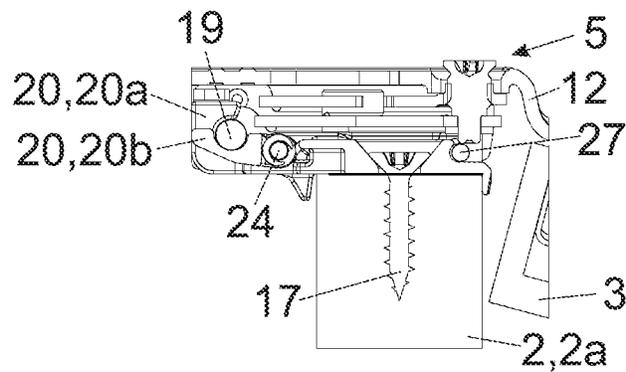


Fig. 5a

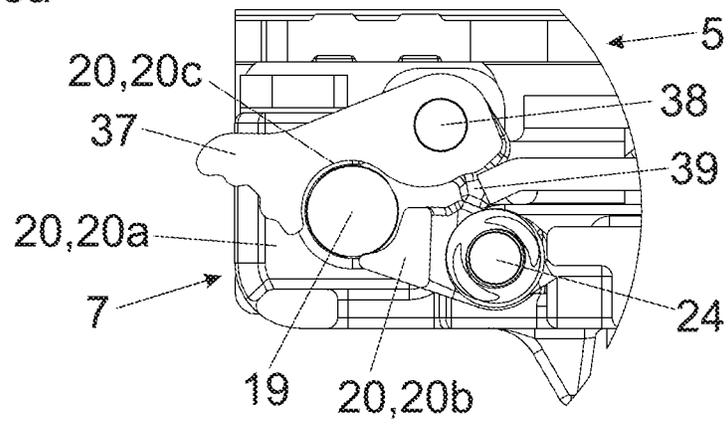


Fig. 5b

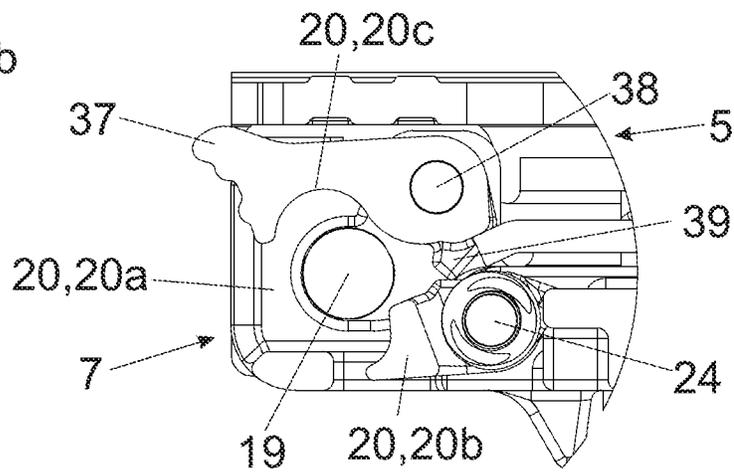
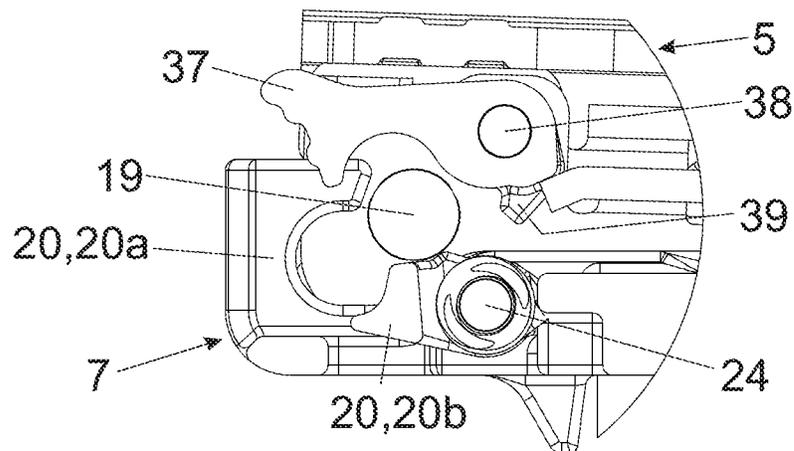


Fig. 5c



## HINGE ASSEMBLY

## BACKGROUND OF INVENTION

The present invention relates to a hinge assembly including a mounting body to be fixed to a furniture carcass, in particular to a frame of the furniture carcass, a furniture hinge comprising two fitting portions connected to one another via at least one, in particularly precisely one, hinge axis, and a locking device for, in particular releasably, locking one of the fitting portions of the furniture hinge to the mounting body.

AT 383 852 B discloses a furniture hinge with a hinge arm, the hinge arm being configured to be releasably locked via a locking device to a base plate which is to be fixed to a furniture carcass. This offers the comfortable possibility to pre-mount two or more base plates to the furniture carcass, and to pre-mount two or more furniture hinges to a movable furniture part in a first mounting step. In a subsequent mounting step, the furniture hinges pre-mounted to the furniture part can be fixed, with their hinge arms, to the base plates pre-mounted to the furniture carcass without the use of a tool, and can also be demounted without the use of a tool. The hinge arm is provided with a spring-loaded tensioning lever, and a hook of the spring-loaded tensioning lever, in the locked position, engages below a protrusion of the base plate. By manually lifting the spring-loaded tensioning lever, the locking between the hinge arm and the base plate can be again released.

A drawback of the known locking devices lies in the fact that the locking, upon applying a force to the tensioning lever, is immediately released. This means that the components configured to be locked to one another can abruptly be loosened from one another by an (also unintentional) actuation of the tensioning lever. Therefore, there is the danger of a crash of the movable furniture part. Thereby, it is possible that damages to objects, to persons and also to the movable furniture part itself may occur.

## SUMMARY OF THE INVENTION

It is an object of the present invention to propose a hinge assembly of the type mentioned in the introductory part, thereby avoiding the above-discussed drawbacks.

According to the invention, the locking device includes at least one holding portion having an outer contour, and a locking contour corresponding thereto, and the locking contour includes at least one stationary first member and at least one second member configured to be moved, preferably pivotally, relative to the first member, wherein the at least one holding portion is received between the two members of the locking contour in a locked position.

In other words, the locking contour has at least a two-part configuration and includes a stationary first member and at least one second member configured to be moved relative to the first member, and the first member and second member of the locking contour embrace the fixable holding portion in the locked position. Accordingly, the holding portion is held in the locked position by the first member and second member of the locking contour both in a force-locking and also in a form-locking manner.

This has the particular advantage that the holding portion, upon an actuation of the movable second member of the locking contour, will be further held in position by the stationary member of the locking contour in a form-locking manner, without the holding portion performing a relative movement to the first member of the locking contour. Only

after an intentionally performed release movement, the components configured to be locked to one another (that is to say the mounting body and the holding portion of a fitting portion) can be separated from one another. This constitutes a safety aspect, because the danger of an unintentional loosening of the locking device and a crash of the furniture part can be significantly reduced.

According to a preferred embodiment of the invention, both members of the locking contour are arranged on the mounting body, and the at least one holding portion is arranged on that fitting portion, that is to be locked, of the furniture hinge.

The outer contour of the at least one holding portion can be configured at least partially cylindrical, for example as a cylindrical pin. The fitting portion, that is to be locked, of the furniture hinge can include at least two side limbs mutually spaced from one another in a parallel relationship, and the cylindrical pin is arranged between the two side limbs of the fitting portion.

The at least one stationary first member of the locking contour can be formed, for example, on a hook element. It can be preferably provided that the first member of the locking contour is configured to be open in a direction of the fitting portion which is connected via the at least one hinge axis to the fitting portion to be locked.

The at least one stationary first member of the locking contour, in a cross-section, can have a concave, preferably a semi-cylindrical, portion.

According to an embodiment of the invention, the two members of the locking contour, in a cross-section, collectively form a three-quarter circle, and/or are laterally arranged offset to one another in a direction extending parallel to the at least one hinge axis. In this way, a stable and very tilting-proof connection between the mounting body and the holding portion can be afforded.

The locking contour can include at least two stationary first members which are spaced from one another in a direction extending parallel to the at least one hinge axis, and the at least one second member of the locking contour is arranged between the at least two stationary first members.

According to a preferred embodiment, the at least one second member of the locking contour is formed on a lever. Thereby, an end of the lever is pivotally supported about a pivoting axis, and/or a spring element, preferably a leg spring or a leaf spring, is provided, the spring element pressurizing the lever with a force in a direction of the locked position, and/or the lever has a free end, and the second member of the locking contour is arranged on the free end of the lever, and/or the lever has a free end, and an actuating element for manually unlocking the locking device is arranged on the free end of the lever.

## BRIEF DESCRIPTION OF THE DRAWINGS

Further details and advantages of the present invention result from the following description of figures, in which:

FIG. 1a, 1b are perspective views of an item of furniture comprising a furniture carcass and a furniture part movably-supported relative to the furniture carcass, and a perspective view of a furniture hinge for movably supporting the furniture part,

FIG. 2 shows a furniture hinge configured to be fixed to the mounting body in an exploded view,

FIG. 3 shows a further embodiment of a furniture hinge in an exploded view,

FIG. 4a-4d show the mounting operation of the first fitting portion to the mounting body in cross-sectional views,

FIG. 5a-5c show a further embodiment with an additional unlocking lever for releasing the connection between the mounting body and the holding portion.

#### DETAILED DESCRIPTION OF THE INVENTION

FIG. 1a shows a perspective view of an item of furniture 1 comprising a furniture carcass 2 and a furniture part 3, the furniture part 3 being pivotally supported relative to the furniture carcass 2 by two or more furniture hinges 4. The furniture hinges 4 include two fitting portions 5, 6 hingedly connected to one another. A first fitting portion 5 of the furniture hinge 4 is configured to be fixed to the furniture carcass 2, and a second fitting portion 6 of the furniture hinge 4 is configured to be fixed to the movable furniture part 3.

In the shown embodiment, the furniture hinges 4 are configured as so-called frame hinges. The first fitting portion 5 of the furniture hinge 4 can be configured as an angled hinge arm 5a (FIG. 1b), the hinge arm 5a being configured to be fixed to a frame 2a of the furniture carcass 2.

FIG. 1b shows the furniture hinge 4 in a mounted condition on the frame 2a of the furniture carcass 2. The first fitting portion 5 in the form of the hinge arm 5a is configured substantially L-shaped, and a first limb of the L-shaped hinge arm 5a is configured to bear against a narrow side 8a of the frame 2a. A second limb of the L-shaped hinge arm 5a is configured to bear against a side surface 8b of the frame 2a.

The first fitting portion 5 in the form of the hinge arm 5a can be fixed to the furniture carcass 2 via a mounting body 7. In a first mounting step, the mounting body 7 is to be fixed to the furniture carcass 2, preferably to the frame 2a. In a subsequent mounting step, the first fitting portion 5 can be locked with the mounting body 7 which is pre-mounted to the furniture carcass 2 without the use of a tool, and can be unlocked without the use of a tool.

By at least one or more adjustment devices 9a, 9b, 9c, a position of the furniture part 3 can be adjusted in a mounted condition on the furniture carcass 2. It can be preferably provided that three adjustment devices 9a, 9b, 9c are provided so as to adjust a position of the furniture part 3 relative to the furniture carcass 2 in a three-dimensional manner. By the first adjustment device 9a, the movable furniture part 3 is adjustable in a depth direction. By the second adjustment device 9b, the movable furniture part 3 is adjustable in a height direction. By the third adjustment device 9c, a side adjustment of the movable furniture part 3 can be afforded. At least one adjustment device 9a, 9b, 9c, preferably all adjustment devices 9a, 9b, 9c, includes or include a rotationally supported adjustment wheel (for example an eccentric, a spiral disc or an adjustment screw).

The second fitting portion 6 of the furniture hinge 4 can be configured as a hinge cup 6a, the hinge cup 6a being pivotally connected to the first fitting portion 5 via at least one hinge axis 14 (FIG. 2), preferably precisely one single hinge axis 14. The hinge cup 6a includes a cavity 6b in which a damping device 10 is arranged, the damping device 10 being configured to dampen a relative movement of the two fitting portions 5, 6 of the furniture hinge 4 to one another. The damping device 10 can include at least one, preferably hydraulic, piston-cylinder-unit, the piston-cylinder-unit being configured to be acted upon by a pivotable hinge lever 12 of the furniture hinge 4 upon a predetermined relative position of the fitting portions 5, 6 to one another. By

a movably supported switch 11 having at least two switching positions, a damping power of the damping device 10 can be limited or deactivated.

FIG. 2 shows the furniture hinge 4 according to FIG. 1b, the furniture hinge 4 being configured to be releasably locked to the mounting body 7 which is to be fixed to the furniture carcass 2. The second fitting portion 6 of the furniture hinge 4 can be configured as a hinge cup 6a. The hinge cup 6a can be countersunk within a bore of the movable furniture part 3, and the hinge cup 6a can be fixed to the movable furniture part 3 by at least one fastener 13 (for example by a screw or by at least one expanding member).

A damping device 10 for dampening a movement of the furniture hinge 4 is arranged within the cavity 6b of the hinge cup 6a. The second fitting portion 6 is pivotally connected to the first fitting portion 5 via at least one, preferably precisely one single, hinge axis 14.

The furniture hinge 4 includes a spring device 15 for moving the second fitting portion 6 into a closed-end position and/or into an open-end position relative to the first fitting portion 5. In the shown embodiment, the spring device 15 is configured as a leg spring, and each of the two ends of the leg spring have a plastic coating 16. In an assembled condition of the furniture hinge 4, each of the plastic coatings 16 bears against a control curve 32a, 32b of the first fitting portion 5. Therefore, the frictional resistance can be reduced and the fitting portions 5, 6 can be moved smoothly and practically without noise emissions relative to one another.

The mounting body 7 can be fixed, for example, via at least one screw 17 to the furniture carcass 2, preferably to the frame 2a. The mounting body 7 includes at least two protrusions 34a, 34b configured to bear against opposing sides of the frame 2a in order to improve the pre-positioning of the mounting body 7.

By a locking device 18, the first fitting portion 5 can be releasably locked with the mounting body 7. The locking device 18 includes at least one holding portion 19 having a, preferably cylindrical, outer contour 19a, and a locking contour 20 corresponding to the outer contour 19a. The locking contour 20 includes at least one first stationary member 20a, and at least one second member 20b configured to be moved, preferably pivotally, relative to the first member 20a. In the locked position, the at least one holding portion 19 is received between the two members 20a, 20b of the locking contour 20.

In a simple manner, the at least one holding portion 19 can be configured as a cylindrical pin. The first fitting portion 5 to be locked can include two side limbs 21a, 21b mutually spaced from one another, and the cylindrical pin is arranged therebetween.

The movable second member 20b of the locking contour 20 is pre-stressed by a spring element 25, preferably by a leg spring or by a leaf spring, and the spring element 25 pressurizes the second member 20b of the locking contour 20 with a force in a direction of the locked position. The movable second member 20b of the locking contour 20 is pivotally supported about a pin 30, the pin 30 forming the pivot axis 24 for the movable second member 20b of the locking contour 20.

The two fitting portions 5, 6 of the furniture hinge 4 can be connected to one another via at least one hinge lever 12 separate from the two fitting portions 5, 6. By the adjustment device 9c, a position of the at least one hinge lever 12 relative to the fitting portion 5, 6 configured to be locked to the mounting body 7 is adjustable, in the present case

adjustable relative to the hinge arm **5a**. For this purpose, the first fitting portion **5** can include at least one linear guide **31a**, **31b** for adjustably supporting the hinge lever **12**.

The first fitting portion **5** to be locked with the mounting body **7** of the furniture hinge **4** can include at least two, and preferably precisely three, plates **29a**, **29b**, **29c** arranged above one another. By at least one adjustment device **9a**, **9b**, **9c**, the at least two plates **29a**, **29b**, **29c** can be displaced relative to one another and/or can be pivoted relative to one another. For the linear adjustment of the plates **29a**, **29b**, **29c** to one another, at least two pin-shaped holding parts **19**, **27**, **33** can be provided, and the at least two plates **29a**, **29b**, **29c** can be linearly displaced relative to one another along the at least two pin-shaped holding parts **19**, **27**, **33**.

In the shown embodiment, each of the adjustment devices **9a**, **9b**, **9c** includes an eccentric. The eccentric of the first adjustment device **9a** is rotationally connected (preferably clinched) to the second plate **29b** via the bearing location **40a**, and the eccentric control curve of the eccentric is supported on the third plate **29c**.

The eccentric of the second adjustment device **9b** is rotationally connected (preferably clinched) to the first plate **29a** via the bearing location **40b**, and the eccentric control curve of the eccentric is supported on the second plate **29b**.

The eccentric of the third adjustment device **9c** is rotationally connected (preferably clinched) to the third plate **29c** via the bearing location **40c**, and the eccentric control curve of the eccentric is supported on the hinge lever **12**.

Of course, it is also possible that the adjustment devices **9a**, **9b**, **9c** can include a worm gear or a rotatable spiral disc instead of the eccentric, the spiral disc being configured to co-operate with mutually spaced protrusions of the component to be adjusted.

FIG. 3 shows a slightly modified furniture hinge **4** in an exploded view. In contrast to the furniture hinge **4** according to FIG. 2, the hinge lever **12** and the plate **29c** of the first fitting portion **5** are formed together so as to have an integral one-piece configuration. By a, preferably rectangular, cover **35**, at least one adjustment wheel, preferably at least two adjustment wheels, of the adjustment devices **9a**, **9b**, **9c** can be covered.

The locking device **18** can include at least one further holding portion **27**, and the two holding portions **19**, **27** of the locking device **18** are mutually spaced from one another in a direction extending transversely to the at least one hinge axis **14**. It can be preferably provided that

each of the two holding portions **19**, **27** of the locking device **18** has a longitudinal direction **L1**, **L2**, and the longitudinal directions **L1**, **L2** of the two holding portions **19**, **27** extend substantially parallel to one another, and/or

the at least one further holding portion **27** is configured as a cylindrical pin, preferably wherein the lockable fitting portion **5**, **6** of the furniture hinge **4** includes at least two mutually spaced side limbs **21a**, **21b** between which the cylindrical pin is arranged.

The at least one stationary first member **20a** of the locking contour **20** can be formed on a hook element **22**. It can be preferably provided that the first member **20a** of the locking contour **20** is configured to be open in a direction of the fitting portion **6** that is connected to the lockable fitting portion **5** via the at least one hinge axis **14**. It can be seen that the at least one first stationary member **20a** of the locking contour **20**, in a cross-section, has a concave, preferably approximately a semi-cylindrical, portion.

In the shown embodiment, the locking contour **20** includes at least two stationary first members **20a** which are

mutually spaced from one another in a direction extending parallel to the at least one hinge axis **14**. The at least one second member **20b** of the locking contour is arranged between the at least two stationary first members **20a** of the locking contour **20**.

The at least one second member **20b** of the locking contour **20** can be arranged on a lever **23**. It can be preferably provided

that an end of the lever **23** is pivotally supported about a pivoting axis **24**, and/or

that a spring element **25**, preferably a leg spring or a leaf spring, is provided, the spring element **25** pressurizing the lever **23** with a force in a direction of the locked position, and/or

that the lever **23** has a free end **26**, and the second member **20b** of the locking contour is arranged on the free end **26** of the lever **23**, and/or

that the lever **23** has a free end **26**, and an actuating element **26a** for manually unlocking the locking device **18** is arranged on the free end **26** of the lever **23**.

The second plate **29b** can be slid from the rear, that is to say in the direction (X), between the side limbs **21a**, **21b** of the third plate **29c**. The third plate **29c** includes an inwardly projecting abutment **36**, preferably in the form of an embossment, configured to limit a movement of the second plate **29b**. The eccentric of the first adjustment device **9a** is rotationally connected to the second plate **29b** via the bearing location **40a**. By an actuation of the first adjustment device **9a**, the third plate **29c** relative to the second plate **29b** can be adjusted in the direction (X).

The eccentric of the second adjustment device **9b** is rotationally connected to the first plate **29a** via the bearing location **40b**. By an actuation of the second adjustment device **9b**, the plates **29b**, **29c** are jointly adjustable relative to the first plate **29a** in direction (Y).

In the shown embodiment, the third adjustment device **9c** includes an adjustment screw, and a lower end of the adjustment screw is supported on the bearing location **40c** of the first plate **29a**. The adjustment screw of the third adjustment device **9c** has an outer thread configured to co-operate with an inner thread **41** of the second plate **29b**. By an actuation of the third adjustment device **9c**, the second plate **29b** can be pivoted relative to the first plate **29a** about the pin-shaped holding portion **19** in the direction (Z).

The two stationary first members **20a** of the locking contour **20** are each formed on a hook element **22**, and the movable second member **20b** of the locking contour **20** is arranged between the two first members **20a** of the locking contour **20**. The movable second member **20b** is pivotally supported about the pin **30**, the pin **30** forming the pivot axis **24** for the second member **20b**. It can be preferably provided that the direction of the at least one hinge axis **14** and the direction of the pivot axis **24** extend parallel to one another.

It is to be noted that the screw **17**, by which the mounting body **7** is fixed to the furniture carcass **2**, can be actuated at any time by a tool, preferably by a screwdriver, in an assembled and in a mounted condition of the furniture hinge **4** on the furniture carcass **2**. For this purpose, the recesses in the plates **29a**, **29b**, **29c** have to be arranged such that an introduction of the tool and a rotational movement of the screw **17** with the aid of the tool can be possible in all operating positions of the furniture hinge **4**.

FIG. 4a-4d shows the mounting operation of the first fitting portion **5** of the furniture hinge **4** to the mounting body **7**. In a first mounting step, the mounting body **7** is to be fixed to the furniture carcass **2**, in particular to the frame **2a** of the furniture carcass **2**, via the screw **17**. By means of

the protrusions **34a**, **34b**, an improved pre-positioning of the mounting body **7** relative to the frame **2a** of the furniture carcass **2** can be provided.

The first fitting portion **5** includes the two mutually spaced holding portions **19**, **27** which, in the shown embodiment, have a cylindrical outer contour. The two holding portions **19**, **27** are mutually spaced from one another in a direction extending transversely to the at least one hinge axis **14** and each have a longitudinal direction **L1**, **L2** extending substantially parallel to one another.

The mounting body **7** is provided with the locking contour **20** comprising the two stationary first members **20a** and the movable second member **20b**. The second member **20b** is movably supported between the two stationary first members **20a**. The locking contour **20** of the mounting body **7** is configured to be releasably locked with the holding portion **19** of the first fitting portion **5**. The mounting body **7** further includes a receiving device **28** configured to receive the further holding portion **27** of the first fitting portion **5**.

Starting from the position according to FIG. **4a**, the fitting portion **5** is placed onto the mounting body **7** and is moved in a direction of the assembly movement (FB). By the movement of the fitting portion **5** in the direction of the assembly movement (FB), the second member **20b** of the locking contour **20** is moved about the pivot axis **24** against a force of the spring element **25** (FIG. **4b**).

The two holding portions **19**, **27** can be arranged within the locking contour **20** and within the at least one receiving device **28** by a single common, preferably translational, assembly movement (FB, see FIG. **4c**). By a continued movement of the first fitting portion **5** in the direction of the assembly movement (FB), the second member **20b** of the locking contour **20** snaps back by a force of the spring element **25** so as to lock the holding portion **19** in a force-locking and in a form-locking manner. The two members **20a**, **20b** of the locking contour **20**, in a cross-section, collectively form a three-quarter circle and/or are arranged offset to one another in a direction extending parallel to the at least one hinge axis **14**.

The locking between the mounting body **7** and the first fitting portion **5** can be again released by applying a force to the second member **20b** of the locking contour **20**, against a force of the spring element **25**. As shown in a comparison of FIGS. **4b** and **4c**, the force is applied to pivot the second member **20b** in a downward direction (toward the mounting portion **7** and the furniture carcass **2**) about pivot axis **24** to release the first fitting portion **5** from the mounting body **7**. The application of force to the second member **20b** for releasing the locking can be done, for example manually, that is to say without the use of a tool. Alternatively, a tool may also be used for applying a force to the second member **20b** so as to release the locking between the mounting body **7** and the fitting portion **5**.

FIG. **5a-5c** show the locked condition between the mounting body **7** and the fitting portion **5**. The locking device **18** includes an additional unlocking lever **37** for releasing the locking between the mounting body **7** and the fitting portion **5** of the furniture hinge **4**.

In the shown embodiment, the locking device **18** includes a third locking contour **20c**, the third locking contour **20c** being arranged on the unlocking lever **37** and being at least partially adapted to an outer contour **19a** of the holding portion **19**. In the shown embodiment, the third locking contour **20c** has a substantially semi-cylindrical form.

The unlocking lever **37** is configured as a component separate from the second member **20b** of the locking contour

**20**, and the unlocking lever **37** is immediately and directly accessible for a manual actuation or for a tool-assisted actuation.

The unlocking lever **37** can be pivoted about the pivoting axis **38** by a manual lifting movement, whereby the third locking contour **20c** of the locking contour **20** can be disengaged from the holding portion **19** (FIG. **5b**).

The unlocking lever **37** is coupled to the second member **20b** of the locking contour **20** via at least one coupling device **39** such that the at least one unlocking lever **37** and the second member **20b** of the locking contour **20** can be pivoted in opposing pivoting directions.

In the shown embodiment, the coupling device **39** is formed by a protrusion arranged on the unlocking lever **37**, the protrusion bearing loosely against the second member **20b** of the locking contour **20** in a locked position between the mounting body **7** and the fitting portion (FIG. **5a**). Upon a movement of the unlocking lever **37** about the pivoting axis **38**, the protrusion of the coupling device **39** pushes against the second member **20b** of the locking contour **20**, so that the second member **20b** can be pivoted in an opposite pivoting direction about the pivoting axis **24** so as to unblock the holding portion **19**.

FIG. **5c** shows the unlocked condition between the mounting body **7** and the fitting portion **5**. In the shown embodiment, the unlocking lever **37** is movably arranged on the fitting portion **5**. It can be preferably provided that the pivoting axis **38** of the unlocking lever **37** and the at least one hinge axis **14** of the furniture hinge **4** extend parallel to one another.

The invention claimed is:

1. A hinge assembly comprising:

a mounting body configured to be fixed to a furniture carcass;

a furniture hinge comprising a first fitting portion and a second fitting portion connected to one another via a hinge axis;

a locking device configured to lock the first fitting portion to the mounting body, the locking device including: a holding portion having an outer contour, and a locking contour corresponding thereto,

wherein the locking contour includes a stationary first member and a movable second member configured to be moved relative to the first member, the holding portion being received between the first member and the second member of the locking contour in a locked position, and

an unlocking lever configured to unlock the locking device, the unlocking lever being configured to:

be a component separate from the second member of the locking contour, and/or

immediately and directly be accessible for a manual actuation or for a tool-assisted actuation, and/or

be coupled to the second member of the locking contour via a coupling device such that the unlocking lever and the second member of the locking contour are pivotable in opposing pivoting directions.

2. The hinge assembly according to claim 1, wherein the first member and the second member of the locking contour are arranged on the mounting body, and the holding portion is arranged on the first fitting portion of the furniture hinge.

3. The hinge assembly according to claim 1, wherein the outer contour of the holding portion is at least partially cylindrical.

4. The hinge assembly according to claim 3, wherein the holding portion is a cylindrical pin.

5. The hinge assembly according to claim 4, wherein the first fitting portion of the furniture hinge includes at least two mutually spaced side limbs between which the cylindrical pin is arranged.

6. The hinge assembly according to claim 1, wherein the first stationary member of the locking contour is formed on a hook element.

7. The hinge assembly according to claim 6, wherein the first member of the locking contour is configured to be open in a direction of the fitting portion connected to the first fitting portion via the hinge axis.

8. The hinge assembly according to claim 1, wherein the stationary first member of the locking contour, in a cross-section, includes a concave, semi-cylindrical portion.

9. The hinge assembly according to claim 1, wherein the first member and the second member of the locking contour, in a cross-section, collectively form a three-quarter circle, and/or are arranged offset to one another in a direction extending parallel to the hinge axis.

10. The hinge assembly according to claim 1, wherein the stationary first member of the locking contour is a first one of at least two stationary first members spaced apart from one another in a direction extending parallel to the hinge axis, the second member of the locking contour being arranged between the at least two stationary first members.

11. The hinge assembly according to claim 1, wherein the second member of the locking contour is arranged on a lever.

12. The hinge assembly according to claim 11, wherein the locking device is configured:

such that an end of the lever is pivotally supported about a pivoting axis, and/or

to include a spring element in the form of a leg spring or a leaf spring, the spring element being configured to pressurize the lever with a force in a direction of the locked position, and/or

such that the lever has a free end, and the second member of the locking contour is arranged on the free end of the lever, and/or

such that the lever has a free end, and an actuating element for manually unlocking the locking device is arranged on the free end of the lever.

13. The hinge assembly according to claim 1, wherein the holding portion is a first holding portion, the locking device including a second holding portion, wherein the first holding portion and the second holding portion of the locking device are spaced apart from one another in a direction extending transversely to the hinge axis.

14. The hinge assembly according to claim 13, wherein: each of the first holding portion and the second holding portion of the locking device has a longitudinal direction extending substantially parallel to one another, and/or

the second holding portion is a cylindrical pin, and the first fitting portion of the furniture hinge includes at least two spaced apart side limbs between which the cylindrical pin is arranged.

15. The hinge assembly according claim 1, wherein the holding portion is a first holding portion, the locking device further including a second holding portion and a receiving device in which the second holding portion can be arranged.

16. The hinge assembly according claim 15, wherein: the receiving device is configured to be open in a direction of the second fitting portion, and/or

the first holding portion and the second holding portion of the locking device are each receivable within a respec-

tive one of the locking contour and the receiving device by a single common, translational, assembly movement.

17. The hinge assembly according to claim 1, wherein the first fitting portion to be locked to the mounting body includes at least two plates stacked one above another.

18. The hinge assembly according to claim 17, wherein: the hinge assembly further comprises an adjustment device configured to move the at least two plates relative to one another, and/or

the holding portion being a first pin-shaped plate holding portion, the hinge assembly further comprising a second pin-shaped plate holding portion along which the at least two plates are linearly displaceable relative to one another.

19. The hinge assembly according to claim 1, wherein the first fitting portion and the second fitting portion are connected to one another by a hinge lever separate from both of the first fitting portion and the second fitting portion.

20. The hinge assembly according to claim 19, further comprising an adjustment device configured to adjust a position of the hinge lever relative to the first fitting portion.

21. The hinge assembly according to claim 1, wherein the second fitting portion is a hinge cup, the hinge assembly further comprising a damping device for dampening a relative movement between the first fitting portion and the second fitting portion, the damping device being arranged within the hinge cup, and a damping power of the damping device is adjustable by a switch.

22. The hinge assembly according to claim 1, wherein the first fitting portion is connected to the second fitting portion by precisely one hinge axis, the locking device is configured to releasably lock the first fitting portion to the mounting body, and the second member is configured to be moved pivotally relative to the first member.

23. A hinge assembly comprising:

a mounting body configured to be fixed to a furniture carcass;

a furniture hinge comprising a first fitting portion and a second fitting portion connected to one another via a hinge axis; and

a locking device configured to releasably lock the first fitting portion to the mounting body, the locking device including:

a holding portion having an outer contour, and a locking contour corresponding thereto,

wherein the locking contour includes a stationary first member and a movable second member configured to be moved relative to the first member, the holding portion being received between the first member and the second member of the locking contour in a locked position, and

wherein the second member is configured to be pivoted downward about a pivot pin to release the lock between the first fitting portion and the mounting body.

24. The hinge assembly according to claim 23, wherein the movable second member has a first end attached to the mounting body via the pivot pin, and has a second free end to which a force is to be applied to pivot the second member about the pivot pin, the second free end being located between the stationary first member and the pivot pin.